

City of Falls Church

Citizens Advisory Committee on Transportation

To: Citizens Advisory Committee on Transportation

From: Paul Baldino

Subject: Traffic Crash Data Elements

Date: October 8, 2020

Background

At the February 12, 2020 meeting we reviewed a compilation of 2018 Falls Church traffic crash data from the Virginia DMV Traffic Records Electronic Data System (TRED) <https://www.treds.virginia.gov/Mapping/Map/CrashesByJurisdiction>. The purpose was to identify the most frequent locations and causes of vehicle crashes as a starting point for recommending safety improvements.

Following the meeting, I spoke with Captain Rau of the Police Department. He said the TRED list is not complete as it doesn't include crashes not entered into the DMV data base, including crashes on private property and crashes not reported to Police.

Captain Rau expressed his willingness to work with the CACT to produce meaningful crash reports if we specify:

1. Our objectives
2. The data elements that interest us.

Because subsequent CACT meetings were cancelled because of Covid-19, we have not pursued this opportunity.

TRED data is now available for 2019 and I have used it to compile the attached summary of Falls Church's Total Crashes, and Primary Streets and Intersections with three or more crashes.

TRED Data Elements

Here is the complete list of data elements in the DMV Traffic Records Electronic Data System (TRED). You'll see that some of these are not relevant to Falls Church.

- Crash Date
- Crash Type (Injury or Property Damage)
- Jurisdiction
- Primary Street
- Intersecting Street
- # of Fatalities
- # of Injuries
- Alcohol Related
- Speed Related
- Unrestrained Person Involved
- Interstate Only
- Non-Interstate Only
- Pedestrian Involved
- Distraction Involved
- Driver Cell Phone Involved
- Driver Texting Involved
- Teen (15-19) Driver Involved
- Young (15-20) Driver Involved
- Mature (65+) Driver Involved
- Bicycle Involved
- Moped Involved
- Motorcycle Involved
- Large Truck Involved
- CMV (FMCSA-Reportable) [*Commercial Motor Vehicle (Federal Motor Carrier Safety Administration Reportable)*]
- School Zone Crashes
- Work Zone Crashes
- Deer Involved
- Train Involved

Next Steps

For purposes of engaging with Captain Rau, following is a draft objective and list of data elements the CACT might consider most important. Please review and let's refine the list at the October meeting.

Objective

To identify locations where crashes occur most frequently, particularly those that result in injuries. These locations can be investigated to identify conditions that can be modified to eliminate or reduce crashes and injuries.

Data Elements of Most Interest to CACTTotal Crashes

- Fatalities
- Crashes with Injuries
- Total Injuries
- Pedestrian Involved
- Bicycle Involved
- Large Truck Involved
- Primary Streets
- Intersections (Primary street and intersecting street)

Crashes with Injuries

- By Primary Street
 - Number of Crashes with Injuries
 - Total Injuries
 - Pedestrian Involved
 - Bicycle Involved
- By Intersection
 - Number of Crashes with Injuries
 - Total Injuries
 - Pedestrian Involved
 - Bicycle Involved

Attachment: Summary of 2019 Falls Church Crashes in the DMV Traffic Records Electronic Data System